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## RAW SEQUENCE LISTING

DATE: 10/12/2004

PATENT APPLICATION: US/10/820,809A

TIME: 12:37:58

Input Set : A:\2004-10-05 Sequence Listing as filed.txt

Output Set: N:\CRF4\10122004\J820809A.raw

3 <110> APPLICANT: Irving W. WAINER et al.  
 5 <120> TITLE OF INVENTION: COMPUTER-BASED MODEL FOR IDENTIFICATION AND CHARACTERIZATION  
 OF  
 6 NON-COMPETITIVE INHIBITORS OF NICOTINIC ACETYLCHOLINE RECEPTORS  
 7 AND RELATED LIGAND-GATED ION CHANNEL RECEPTORS  
 9 <130> FILE REFERENCE: 1173-1025PUS2  
 C--> 11 <140> CURRENT APPLICATION NUMBER: US/10/820,809A  
 C--> 11 <141> CURRENT FILING DATE: 2004-04-09  
 11 <160> NUMBER OF SEQ ID NOS: 15  
 13 <170> SOFTWARE: PatentIn version 3.2  
 15 <210> SEQ ID NO: 1  
 16 <211> LENGTH: 23  
 17 <212> TYPE: PRT  
 18 <213> ORGANISM: Unknown  
 20 <220> FEATURE:  
 21 <221> NAME/KEY: misc\_feature  
 22 <222> LOCATION: (1)..(23)  
 23 <223> OTHER INFORMATION: Table 1 Delta Sequence - Transmembrane domain of ligand gated  
 ion  
 24 channel subunit  
 26 <400> SEQUENCE: 1  
 28 Glu Lys Met Ser Thr Ala Ile Ser Val Leu Leu Ala Gly Ala Val Phe  
 29 1 5 10 15  
 31 Leu Leu Leu Thr Ser Gly Arg  
 32 20  
 35 <210> SEQ ID NO: 2  
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 37 <212> TYPE: PRT  
 38 <213> ORGANISM: Unknown  
 40 <220> FEATURE:  
 41 <221> NAME/KEY: misc\_feature  
 42 <222> LOCATION: (1)..(23)  
 43 <223> OTHER INFORMATION: Table 1 Gamma Sequence - Transmembrane domain of ligand gated  
 ion  
 44 channel subunit  
 46 <400> SEQUENCE: 2  
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 49 1 5 10 15  
 51 Leu Phe Leu Ile Ala Gln Lys  
 52 20  
 55 <210> SEQ ID NO: 3  
 56 <211> LENGTH: 23  
 57 <212> TYPE: PRT  
 58 <213> ORGANISM: Unknown



60 <220> FEATURE:  
61 <221> NAME/KEY: misc\_feature

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62 &lt;222&gt; LOCATION: (1)..(23)

63 <223> OTHER INFORMATION: Table 1 Alpha 1 Sequence - Transmembrane domain of ligand  
gated ion

64 channel subunit

66 &lt;400&gt; SEQUENCE: 3

68 Glu Lys Met Thr Leu Ser Ile Ser Val Leu Leu Ser Leu Thr Val Phe

69 1 5 10 15

71 Leu Leu Val Ile Val Glu Leu

72 20

75 &lt;210&gt; SEQ ID NO: 4

76 &lt;211&gt; LENGTH: 23

77 &lt;212&gt; TYPE: PRT

78 &lt;213&gt; ORGANISM: Unknown

80 &lt;220&gt; FEATURE:

81 &lt;221&gt; NAME/KEY: misc\_feature

82 &lt;222&gt; LOCATION: (1)..(23)

83 <223> OTHER INFORMATION: Table 1 Alpha 3 Sequence - Transmembrane domain of ligand  
gated ion

84 channel subunit

86 &lt;400&gt; SEQUENCE: 4

88 Glu Lys Val Thr Leu Cys Ile Ser Val Leu Leu Ser Leu Thr Val Phe

89 1 5 10 15

91 Leu Leu Val Ile Thr Glu Thr

92 20

95 &lt;210&gt; SEQ ID NO: 5

96 &lt;211&gt; LENGTH: 23

97 &lt;212&gt; TYPE: PRT

98 &lt;213&gt; ORGANISM: Unknown

100 &lt;220&gt; FEATURE:

101 &lt;221&gt; NAME/KEY: misc\_feature

102 &lt;222&gt; LOCATION: (1)..(23)

103 <223> OTHER INFORMATION: Table 1 Alpha 4 Sequence - Transmembrane domain of ligand  
gated ion

104 channel subunit

106 &lt;400&gt; SEQUENCE: 5

108 Glu Lys Ile Thr Leu Cys Ile Ser Val Leu Leu Ser Leu Thr Val Phe

109 1 5 10 15

111 Leu Leu Leu Ile Thr Glu Ile

112 20

115 &lt;210&gt; SEQ ID NO: 6

116 &lt;211&gt; LENGTH: 23

117 &lt;212&gt; TYPE: PRT

118 &lt;213&gt; ORGANISM: Unknown

120 &lt;220&gt; FEATURE:

121 &lt;221&gt; NAME/KEY: misc\_feature

122 &lt;222&gt; LOCATION: (1)..(23)

123 <223> OTHER INFORMATION: Table 1 Alpha 5 Sequence - Transmembrane domain of ligand  
gated ion

124 channel subunit

126 &lt;400&gt; SEQUENCE: 6

128 Glu Lys Ile Cys Leu Cys Thr Ser Val Leu Val Ser Leu Thr Val Phe

129 1 5 10 15

131 Leu Leu Val Ile Glu Glu Ile

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137 <212> TYPE: PRT
138 <213> ORGANISM: Unknown
140 <220> FEATURE:
141 <221> NAME/KEY: misc_feature
142 <222> LOCATION: (1)..(23)
143 <223> OTHER INFORMATION: Table 1 Alpha 6 Sequence - Transmembrane domain of ligand
gated ion
144          channel subunit
146 <400> SEQUENCE: 7
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149 1          5          10          15
151 Leu Leu Val Ile Thr Glu Thr
152          20
155 <210> SEQ ID NO: 8
156 <211> LENGTH: 23
157 <212> TYPE: PRT
158 <213> ORGANISM: Unknown
160 <220> FEATURE:
161 <221> NAME/KEY: misc_feature
162 <222> LOCATION: (1)..(23)
163 <223> OTHER INFORMATION: Table 1 Alpha 7 Sequence - Transmembrane domain of ligand
gated ion
164          channel subunit
166 <400> SEQUENCE: 8
168 Glu Lys Ile Ser Leu Gly Ile Thr Val Leu Leu Ser Leu Thr Val Phe
169 1          5          10          15
171 Met Leu Leu Val Ala Glu Ile
172          20
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176 <211> LENGTH: 23
177 <212> TYPE: PRT
178 <213> ORGANISM: Unknown
180 <220> FEATURE:
181 <221> NAME/KEY: misc_feature
182 <222> LOCATION: (1)..(23)
183 <223> OTHER INFORMATION: Table 1 Alpha 9 Sequence - Transmembrane domain of ligand
gated ion
184          channel subunit
186 <400> SEQUENCE: 9
188 Glu Lys Val Ser Leu Gly Val Thr Ile Leu Leu Ala Met Thr Val Phe
189 1          5          10          15
191 Gln Leu Met Val Ala Glu Ile
192          20
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196 <211> LENGTH: 23
197 <212> TYPE: PRT
198 <213> ORGANISM: Unknown
200 <220> FEATURE:
201 <221> NAME/KEY: misc_feature

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202 &lt;222&gt; LOCATION: (1)..(23)

203 <223> OTHER INFORMATION: Table 1 Alpha 10 Sequence - Transmembrane domain of ligand  
gated ion

204 channel subunit

206 &lt;400&gt; SEQUENCE: 10

208 Glu Lys Val Ser Leu Gly Val Thr Val Leu Leu Ala Leu Thr Val Phe

209 1 5 10 15

211 Gln Leu Ile Leu Ala Glu Ser

212 20

215 &lt;210&gt; SEQ ID NO: 11

216 &lt;211&gt; LENGTH: 23

217 &lt;212&gt; TYPE: PRT

218 &lt;213&gt; ORGANISM: Unknown

220 &lt;220&gt; FEATURE:

221 &lt;221&gt; NAME/KEY: misc\_feature

222 &lt;222&gt; LOCATION: (1)..(23)

223 <223> OTHER INFORMATION: Table 1 Beta 1 Sequence - Transmembrane domain of ligand  
gated ion

224 channel subunit

226 &lt;400&gt; SEQUENCE: 11

228 Glu Lys Met Gly Leu Ser Ile Phe Ala Leu Leu Thr Leu Thr Val Phe

229 1 5 10 15

231 Leu Leu Leu Leu Ala Asp Lys

232 20

235 &lt;210&gt; SEQ ID NO: 12

236 &lt;211&gt; LENGTH: 23

237 &lt;212&gt; TYPE: PRT

238 &lt;213&gt; ORGANISM: Unknown

240 &lt;220&gt; FEATURE:

241 &lt;221&gt; NAME/KEY: misc\_feature

242 &lt;222&gt; LOCATION: (1)..(23)

243 <223> OTHER INFORMATION: Table 1 Beta 2 Sequence - Transmembrane domain of ligand  
gated ion

244 channel subunit

246 &lt;400&gt; SEQUENCE: 12

248 Glu Lys Met Thr Leu Cys Ile Ser Val Leu Leu Ala Leu Thr Val Phe

249 1 5 10 15

251 Leu Leu Leu Ile Ser Lys Ile

252 20

255 &lt;210&gt; SEQ ID NO: 13

256 &lt;211&gt; LENGTH: 23

257 &lt;212&gt; TYPE: PRT

258 &lt;213&gt; ORGANISM: Unknown

260 &lt;220&gt; FEATURE:

261 &lt;221&gt; NAME/KEY: misc\_feature

262 &lt;222&gt; LOCATION: (1)..(23)

263 <223> OTHER INFORMATION: Table 1 Beta 3 Sequence - Transmembrane domain of ligand  
gated ion

264 channel subunit

266 &lt;400&gt; SEQUENCE: 13

268 Glu Lys Leu Ser Leu Ser Thr Ser Val Leu Val Ser Leu Thr Val Phe

269 1 5 10 15

271 Leu Leu Val Ile Glu Glu Ile

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282 <222> LOCATION: (1)..(23)
283 <223> OTHER INFORMATION: Table 1 Beta 4 Sequence - Transmembrane domain of ligand
gated ion
284             channel subunit
286 <400> SEQUENCE: 14
288 Glu Lys Met Thr Leu Cys Ile Ser Val Leu Leu Ala Leu Thr Phe Phe
289 1             5             10             15
291 Leu Leu Leu Ile Ser Lys Ile
292             20
295 <210> SEQ ID NO: 15
296 <211> LENGTH: 23
297 <212> TYPE: PRT
298 <213> ORGANISM: Unknown
300 <220> FEATURE:
301 <221> NAME/KEY: misc_feature
302 <222> LOCATION: (1)..(23)
303 <223> OTHER INFORMATION: Table 1 Epsilon Sequence - Transmembrane domain of ligand
gated ion
304             channel subunit
306 <400> SEQUENCE: 15
308 Gln Lys Cys Thr Val Ser Ile Asn Val Leu Leu Ala Gln Thr Val Phe
309 1             5             10             15
311 Leu Phe Phe Leu Ile Ala Gln
312             20

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**VERIFICATION SUMMARY**

PATENT APPLICATION: US/10/820,809A

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L:11 M:271 C: Current Filing Date differs, Replaced Current Filing Date